

# 3M™ RFID CD Tag – Technical Data Sheet

## 35mm O.D. 17mm I.D.

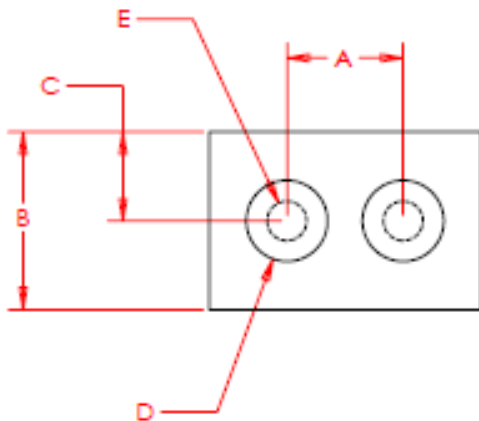
### 75-0500-8304-9

#### Description

This tag is provided as circular pressure sensitive label on a silicon paper liner and is applied to hub of a CD or a DVD disk. The tags are wound on a single tag width roll. The integrated circuit is a 13.56 MHz 2048 bit memory design that is ISO 18000-3 Mode 1 compliant. A black security coating masks the antenna. Bad tags are marked.

#### Dimensions

A	Tag to Tag Pitch	50 mm (2")
B	Web Width	76.6 mm (3")
C	Web edge to label center	38.3 mm (1.5")
D	Tag Outside Diameter	35 mm (1.4")
E	Tag Inside Diameter	17 mm (0.7")
	Tag thickness over antenna (without IC)	0.25 mm (0.01")
	Tag thickness (maximum, with IC)	0.50 mm (0.02")
	Core inside diameter	76 mm (3")
	Maximum roll diameter	185 mm (7.3")



**Comment [31]:** Please add a caption to this image to identify it.

# 3M™ RFID CD Tag (continued)

## Electronic Specifications

<b>IC</b>	TI Tag-it HF-I Plus Transponder
<b>Operating Frequency</b>	13.56 MHz
<b>Supported Standard</b>	ISO 18000-3 Mode 1, ISO 15693-3
<b>Read/Write Cycles</b>	Unlimited number of read cycles and up to 100,000 write cycles.
<b>Read Rate</b>	Up to 50 tags per second (dependent on application).
<b>Anti-collision</b>	Yes - Linear Algorithm
<b>Memory Format</b>	2048-bits programmable read/write
<b>Read Range</b>	Dependent on reader power and reader antenna
<b>Data Rate</b>	26 kb/s as per ISO 18000-3 Mode 1 Specification

## Material Specifications

<b>Face Material</b>	Opaque Thermal Transfer Paper
<b>Adhesive</b>	3M Acrylic General Purpose Adhesive
<b>Adhesive PH</b>	6.0 to 7.5
<b>Antenna</b>	Aluminum
<b>IC to antenna construction</b>	Chip bonded to antenna with Anisotropic Conductive Film adhesive
<b>Tag base material</b>	PET (Polyethylene terephthalate)

## General Specifications

<b>Operating temperature</b>	-20 C to 70 C (-4 F to 158 F)
<b>Storage temperature</b>	15 C to 25 C (59 F to 77 F) and at 20% to 70% relative humidity
<b>Shelf life</b>	2 year
<b>Reliability testing</b>	65 C( 149 F )/95%RH for 15 weeks
<b>ESD voltage immunity</b>	+/- 2 kV peak
<b>Bending diameter</b>	>50 mm

## Delivery and Packaging Specifications

<b>Tags per roll</b>	1000
<b>Rolls in package</b>	1
<b>Winding</b>	Tags out
<b>Inspection and delivered tags</b>	100% inspected, 1000 good tags per roll
<b>Bad Tags Marked</b>	Yes
<b>Warranty</b>	Please contact the local 3M sales representative for warranty information

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